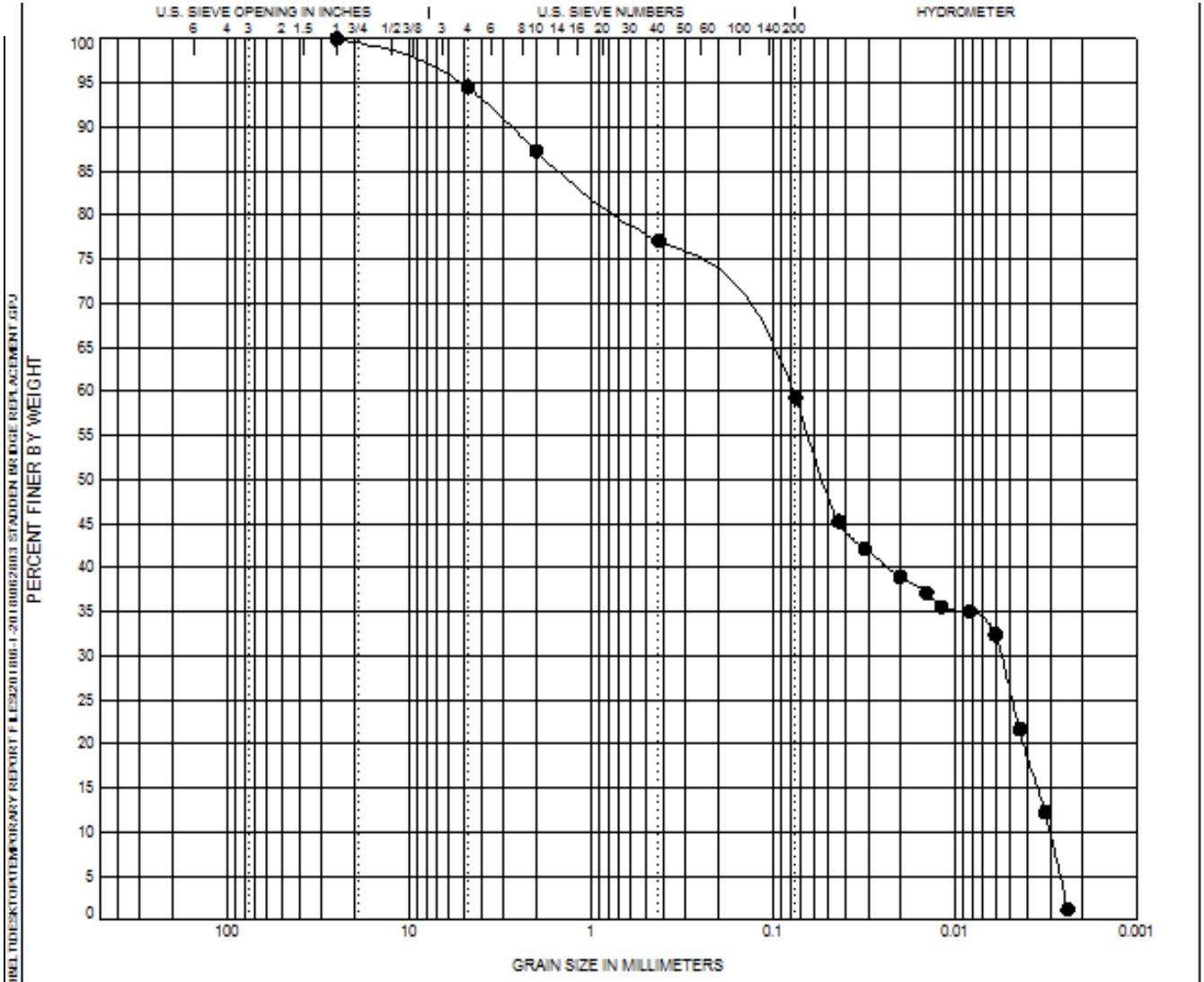




Client: Gannett Flemming  
 Project: Richfield 064106.0306FE

Project Number: 240MT19021



COBBLES	GRAVEL	SAND		SILT	CLAY
		coarse	fine		

Specimen Identification	ODOT (Modified AASHTO) ~ USCS Classification	LL	PL	PI
● <b>SAMPLE 1</b>	<b>A-4a ~ SANDY SILT(ML)</b>	34	26	8

Specimen Identification	D95	D50	D30	D10	%G	%CS	%FS	%M	%C	Cc	Cu
● <b>SAMPLE 1</b>	5.524	0.052	0.006	0.003	13	10	18	33	26	0.13	26.60

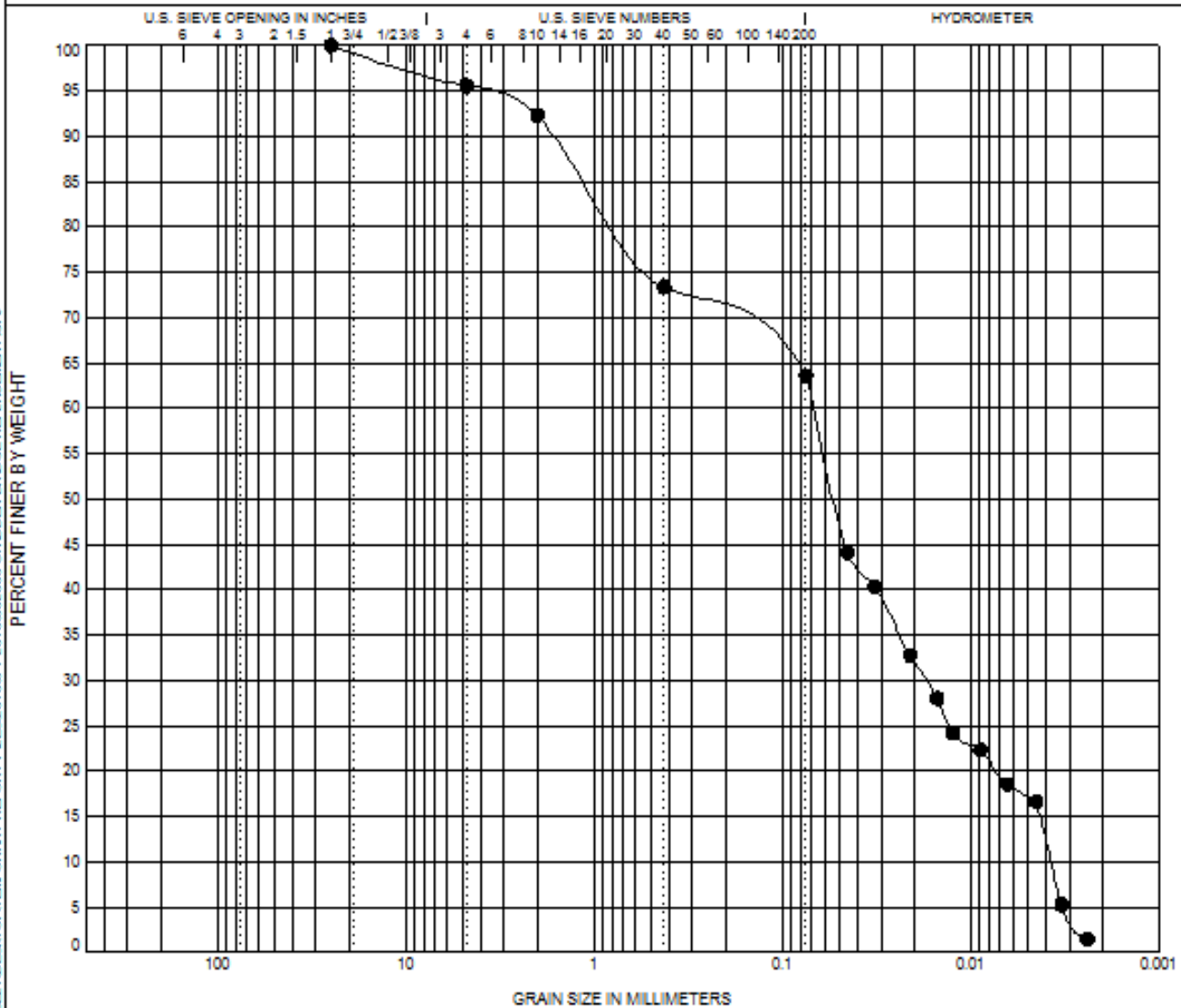
Organic Content: 27.10%  
 Moisture Content: 49.50%

Tested By: Jeff Strobelt Checked By: Richard Sullivan



Client: Gannett Flemming  
 Project: Richfield 064106.0306FE

Project Number: 240MT19021



COBBLES	GRAVEL	SAND		SILT	CLAY
		coarse	fine		

Specimen Identification	ODOT (Modified AASHTO) ~ USCS Classification					LL	PL	PI			
● <b>SAMPLE 2</b>	<b>A-4a ~ SANDY SILT(ML)</b>					33	24	9			
Specimen Identification	D95	D50	D30	D10	%G	%CS	%FS	%M	%C	Cc	Cu
● <b>SAMPLE 2</b>	4.059	0.053	0.017	0.004	7	19	10	47	17	1.17	18.18

Organic Content: 61.50%  
 Moisture Content: 59.60%

Tested By: Jeff Strobelt

Checked By: Richard Sullivan

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## Lab Analysis Report

Gannett Fleming  
Mitch Weber  
3340 West Market St; First Floor.  
Akron, OH 44333

Project: Richfield Joint Recreation Dist  
Date Received: 10/13/2017  
Date Complete: 10/24/2017  
Date Reported: 10/24/2017

Test	Method	Result	Units	Date	Analyst
<b>40343-02</b>	<b>10/12/2017</b>	<b>Richfield Joint Rec. Dist</b>	<b>Composite sample</b>		
		<b>Lower lake</b>	<b>Project 063048</b>		
<b>Ammonia, Nitrogen (Distilled)</b>					
Ammonia, NH3 as N	EPA 350.2	8.78	mg/kg	10/24/2017	NCEL
<b>Copper (Cu), TCLP</b>					
Copper (Cu)	EPA 6010B	<0.30	mg/L	10/18/2017	NCEL
<b>Molybdenum (Mo) - ICP</b>					
Molybdenum (Mo)	EPA 6010B	<0.30	mg/L	10/18/2017	NCEL
<b>Nickel (Ni), TCLP</b>					
Nickel (Ni)	EPA 6010B	<0.30	mg/L	10/18/2017	NCEL
<b>Phosphorus, Total</b>					
Phosphorus, Total as P	EPA 365.3	158.93	mg/kg (dry)	10/20/2017	NCEL
<b>Potassium (K), - TCLP</b>					
Potassium (K)	EPA 6010B	1.74	mg/L	10/18/2017	NCEL
<b>Solids, Total</b>					
Solids, Total	EPA 1684	62.92	%	10/17/2017	NCEL
<b>Solids, Volatile (TVS or VS)</b>					
Solids, Total Volatile Solids	EPA 1684	4.00	%	10/18/2017	NCEL
<b>TCLP Metals (includes extraction)</b>					
Arsenic (As)	EPA 6010B	<0.40	mg/L	10/18/2017	NCEL
Barium (Ba)	EPA 6010B	<0.10	mg/L	10/18/2017	NCEL
Cadmium (Cd)	EPA 6010B	<0.10	mg/L	10/18/2017	NCEL
Chromium (Cr)	EPA 6010B	<0.10	mg/L	10/18/2017	NCEL
Lead (Pb)	EPA 6010B	<0.30	mg/L	10/18/2017	NCEL
Mercury (Hg)	EPA 7470A	<0.005	mg/L	10/18/2017	NCEL
Selenium (Se)	EPA 6010B	<0.50	mg/L	10/18/2017	NCEL
Silver (Ag)	EPA 6010B	<0.10	mg/L	10/18/2017	NCEL
<b>TKN (Total Kjeldahl Nitrogen)</b>					
Total Kjeldahl Nitrogen (TKN) as N	EPA 351.3	638.90	mg/kg (dry)	10/20/2017	NCEL

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Akron, OH 44333

Project: Richfield Joint Recreation Dist  
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Date Complete: 10/24/2017  
Date Reported: 10/24/2017

Test	Method	Result	Units	Date	Analyst
40343-02	10/12/2017 Richfield Joint Rec. Dist Lower lake		Composite sample Project 063048		
<b>TTO (Total Toxic Organics)</b>					
Bromodichloromethane (Dichlorobrom	EPA 8260	<0.02	mg/kg (dry)	10/19/2017	NCEL
Bromoform	EPA 8260	<0.02	mg/kg (dry)	10/19/2017	NCEL
Bromomethane (Methyl Bromide)	EPA 8260	<0.03	mg/kg (dry)	10/19/2017	NCEL
Carbon Tetrachloride	EPA 8260	<0.02	mg/kg (dry)	10/19/2017	NCEL
Chlorobenzene	EPA 8260	<0.02	mg/kg (dry)	10/19/2017	NCEL
Chloroethane	EPA 8260	<0.03	mg/kg (dry)	10/19/2017	NCEL
Chloroform	EPA 8260	<0.02	mg/kg (dry)	10/19/2017	NCEL
2-chloroethyl vinyl ether	EPA 8260	<0.03	mg/kg (dry)	10/19/2017	NCEL
Chloromethane (Methyl Chloride)	EPA 8260	<0.03	mg/kg (dry)	10/19/2017	NCEL
Dibromochloromethane (Chlorodibro	EPA 8260	<0.02	mg/kg (dry)	10/19/2017	NCEL
1,2-Dichlorobenzene	EPA 8260	<0.02	mg/kg (dry)	10/19/2017	NCEL
1,3-Dichlorobenzene	EPA 8260	<0.03	mg/kg (dry)	10/19/2017	NCEL
1,4-Dichlorobenzene	EPA 8260	<0.02	mg/kg (dry)	10/19/2017	NCEL
1,1-Dichloroethane	EPA 8260	<0.02	mg/kg (dry)	10/19/2017	NCEL
1,2-Dichloroethane	EPA 8260	<0.02	mg/kg (dry)	10/19/2017	NCEL
1,1-Dichloroethene	EPA 8260	<0.02	mg/kg (dry)	10/19/2017	NCEL
1,2-Dichloropropane	EPA 8260	<0.02	mg/kg (dry)	10/19/2017	NCEL
Methylene chloride	EPA 8260	<0.02	mg/kg (dry)	10/19/2017	NCEL
Tetrachloroethene	EPA 8260	<0.02	mg/kg (dry)	10/19/2017	NCEL
trans-1,2-Dichloroethene	EPA 8260	<0.02	mg/kg (dry)	10/19/2017	NCEL
1,1,1-Trichloroethane	EPA 8260	<0.02	mg/kg (dry)	10/19/2017	NCEL
1,1,2,2-Tetrachloroethane	EPA 8260	<0.02	mg/kg (dry)	10/19/2017	NCEL
1,1,2-Trichloroethane	EPA 8260	<0.02	mg/kg (dry)	10/19/2017	NCEL
Trichloroethene	EPA 8260	<0.03	mg/kg (dry)	10/19/2017	NCEL
Vinyl Chloride	EPA 8260	<0.03	mg/kg (dry)	10/19/2017	NCEL
Benzene	EPA 8260	<0.02	mg/kg (dry)	10/19/2017	NCEL
Ethylbenzene	EPA 8260	<0.02	mg/kg (dry)	10/19/2017	NCEL
Toluene	EPA 8260	<0.02	mg/kg (dry)	10/19/2017	NCEL
Acrolein	EPA 8260	<0.03	mg/kg (dry)	10/19/2017	NCEL
Acrylonitrile	EPA 8260	<0.03	mg/kg (dry)	10/19/2017	NCEL

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Project: Richfield Joint Recreation Dist  
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Date Complete: 10/24/2017  
Date Reported: 10/24/2017

Test	Method	Result	Units	Date	Analyst
<b>40343-02</b>	<b>10/12/2017</b>	<b>Richfield Joint Rec. Dist</b>	<b>Composite sample</b>		
		<b>Lower lake</b>	<b>Project 063048</b>		
<b>TTO (Total Toxic Organics)</b>					
2-Chlorophenol	EPA 8270	<1.05	mg/kg (dry)	10/18/2017	NCEL
4-Chloro-3-Methylphenol (p-chloro-m-	EPA 8270	<5.24	mg/kg (dry)	10/18/2017	NCEL
2,4-Dichlorophenol	EPA 8270	<1.05	mg/kg (dry)	10/18/2017	NCEL
2,4-Dimethylphenol	EPA 8270	<5.24	mg/kg (dry)	10/18/2017	NCEL
2,4-Dinitrophenol	EPA 8270	<5.24	mg/kg (dry)	10/18/2017	NCEL
2-Methyl-4,6-Dinitrophenol (4,6-dinitr	EPA 8270	<5.24	mg/kg (dry)	10/18/2017	NCEL
4-Nitrophenol	EPA 8270	<5.24	mg/kg (dry)	10/18/2017	NCEL
Pentachlorophenol	EPA 8270	<5.24	mg/kg (dry)	10/18/2017	NCEL
Phenol (GC/MS)	EPA 8270	<1.05	mg/kg (dry)	10/18/2017	NCEL
2,4,6-Trichlorophenol	EPA 8270	<1.05	mg/kg (dry)	10/18/2017	NCEL
Bis(2-Ethylhexyl)Phthalate	EPA 8270	<1.05	mg/kg (dry)	10/18/2017	NCEL
Butyl Benzyl Phthalate	EPA 8270	<1.05	mg/kg (dry)	10/18/2017	NCEL
Di-N-Butyl Phthalate	EPA 8270	<2.10	mg/kg (dry)	10/18/2017	NCEL
Di-N-Octyl Phthalate	EPA 8270	<1.05	mg/kg (dry)	10/18/2017	NCEL
Diethyl Phthalate	EPA 8270	<1.05	mg/kg (dry)	10/18/2017	NCEL
Dimethyl phthalate	EPA 8270	<1.05	mg/kg (dry)	10/18/2017	NCEL
N-Nitrosodi-N-Propylamine	EPA 8270	<1.05	mg/kg (dry)	10/18/2017	NCEL
N-Nitrosodimethylamine	EPA 8270	<1.05	mg/kg (dry)	10/18/2017	NCEL
N-Nitrosodiphenylamine	EPA 8270	<1.05	mg/kg (dry)	10/18/2017	NCEL
2-4-Dinitrotoluene	EPA 8270	<1.05	mg/kg (dry)	10/18/2017	NCEL
2-6-Dinitrotoluene	EPA 8270	<1.05	mg/kg (dry)	10/18/2017	NCEL
Isophorone	EPA 8270	<1.05	mg/kg (dry)	10/18/2017	NCEL
Nitrobenzene	EPA 8270	<1.05	mg/kg (dry)	10/18/2017	NCEL
Acenaphthene	EPA 8270	<1.05	mg/kg (dry)	10/18/2017	NCEL
Acenaphthylene	EPA 8270	<1.05	mg/kg (dry)	10/18/2017	NCEL
Anthracene	EPA 8270	<1.05	mg/kg (dry)	10/18/2017	NCEL
Benzo(a)Anthracene	EPA 8270	<5.24	mg/kg (dry)	10/18/2017	NCEL
Benzo(a)Pyrene	EPA 8270	<1.05	mg/kg (dry)	10/18/2017	NCEL
Benzo(b)Fluoranthene	EPA 8270	<1.05	mg/kg (dry)	10/18/2017	NCEL
Benzo(ghi)Perylene	EPA 8270	<1.05	mg/kg (dry)	10/18/2017	NCEL

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Date Received: 10/13/2017  
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Test	Method	Result	Units	Date	Analyst
40343-02	10/12/2017 Richfield Joint Rec. Dist Lower lake		Composite sample Project 063048		
<b>TTO (Total Toxic Organics)</b>					
Benzo(k)Fluoranthene	EPA 8270	<2.10	mg/kg (dry)	10/18/2017	NCEL
Crysene	EPA 8270	<1.05	mg/kg (dry)	10/18/2017	NCEL
Dibenzo(a,h)Anthracene	EPA 8270	<1.05	mg/kg (dry)	10/18/2017	NCEL
Fluoranthene	EPA 8270	<1.05	mg/kg (dry)	10/18/2017	NCEL
Fluorene	EPA 8270	<5.24	mg/kg (dry)	10/18/2017	NCEL
Indeno(1,2,3-cd)Pyrene	EPA 8270	<5.24	mg/kg (dry)	10/18/2017	NCEL
Naphthalene	EPA 8270	<1.05	mg/kg (dry)	10/18/2017	NCEL
Phenanthrene	EPA 8270	<1.05	mg/kg (dry)	10/18/2017	NCEL
Pyrene	EPA 8270	<1.05	mg/kg (dry)	10/18/2017	NCEL
Bis(2-Chloroethoxy) Methane	EPA 8270	<1.05	mg/kg (dry)	10/18/2017	NCEL
Bis(2-Chloroethyl) Ether	EPA 8270	<1.05	mg/kg (dry)	10/18/2017	NCEL
Bis(2-Chloroisopropyl) Ether	EPA 8270	<1.05	mg/kg (dry)	10/18/2017	NCEL
4-Bromophenyl Phenyl Ether	EPA 8270	<1.05	mg/kg (dry)	10/18/2017	NCEL
4-Chlorophenyl Phenyl Ether	EPA 8270	<1.05	mg/kg (dry)	10/18/2017	NCEL
2-Chloronaphthalene	EPA 8270	<1.05	mg/kg (dry)	10/18/2017	NCEL
Hexachlorobenzene	EPA 8270	<1.05	mg/kg (dry)	10/18/2017	NCEL
Hexachlorobutadiene	EPA 8270	<1.05	mg/kg (dry)	10/18/2017	NCEL
Hexachlorocyclopentadiene	EPA 8270	<1.05	mg/kg (dry)	10/18/2017	NCEL
Hexachloroethane	EPA 8270	<5.24	mg/kg (dry)	10/18/2017	NCEL
1,2,4-Trichlorobenzene	EPA 8270	<1.05	mg/kg (dry)	10/18/2017	NCEL
Aldrin	EPA 608/8270	<0.03	mg/kg (dry)	10/18/2017	NCEL
a-BHC	EPA 608/8270	<0.03	mg/kg (dry)	10/18/2017	NCEL
b-BHC	EPA 608/8270	<0.03	mg/kg (dry)	10/18/2017	NCEL
d-BHC	EPA 608/8270	<0.05	mg/kg (dry)	10/18/2017	NCEL
Lindane (gamma-BHC)	EPA 608/8270	<0.05	mg/kg (dry)	10/18/2017	NCEL
Chlordane	EPA 608/8270	<0.03	mg/kg (dry)	10/18/2017	NCEL
4-4'-DDD	EPA 608/8270	<0.05	mg/kg (dry)	10/18/2017	NCEL
4-4'-DDE	EPA 608/8270	<0.05	mg/kg (dry)	10/18/2017	NCEL
4,4'-DDT	EPA 608/8270	<0.05	mg/kg (dry)	10/18/2017	NCEL
Dieldrin	EPA 608/8270	<0.03	mg/kg (dry)	10/18/2017	NCEL

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Test	Method	Result	Units	Date	Analyst
<b>40343-02</b>	<b>10/12/2017</b>	<b>Richfield Joint Rec. Dist</b>	<b>Composite sample</b>		
		<b>Lower lake</b>	<b>Project 063048</b>		
<b>TTO (Total Toxic Organics)</b>					
Endosulfan I (Thiodan)	EPA 608/8270	<0.03	mg/kg (dry)	10/18/2017	NCEL
Endosulfan II	EPA 608/8270	<0.03	mg/kg (dry)	10/18/2017	NCEL
Endosulfan Sulfate	EPA 608/8270	<0.05	mg/kg (dry)	10/18/2017	NCEL
Endrin	EPA 608/8270	<0.05	mg/kg (dry)	10/18/2017	NCEL
Endrin Aldehyde	EPA 608/8270	<0.05	mg/kg (dry)	10/18/2017	NCEL
Heptachlor	EPA 608/8270	<0.03	mg/kg (dry)	10/18/2017	NCEL
Heptachlor Epoxide	EPA 608/8270	<0.03	mg/kg (dry)	10/18/2017	NCEL
PCB-1016 (Arochlor 1016)	EPA 608/8270	<1.59	mg/kg (dry)	10/18/2017	NCEL
PCB-1221 (Arochlor 1221)	EPA 608/8270	<1.59	mg/kg (dry)	10/18/2017	NCEL
PCB-1232 (Arochlor 1232)	EPA 608/8270	<1.59	mg/kg (dry)	10/18/2017	NCEL
PCB-1242 (Arochlor 1242)	EPA 608/8270	<1.59	mg/kg (dry)	10/18/2017	NCEL
PCB-1248 (Arochlor 1248)	EPA 608/8270	<1.59	mg/kg (dry)	10/18/2017	NCEL
PCB-1254 (Arochlor 1254)	EPA 608/8270	<1.59	mg/kg (dry)	10/18/2017	NCEL
PCB-1260 (Arochlor 1260)	EPA 608/8270	<1.59	mg/kg (dry)	10/18/2017	NCEL
Toxaphene	EPA 608/8270	<2.70	mg/kg (dry)	10/18/2017	NCEL
Benzidine	EPA 8270	<1.05	mg/kg (dry)	10/18/2017	NCEL
3-3-Dichlorobenzidine	EPA 8270	<1.05	mg/kg (dry)	10/18/2017	NCEL
1-2-Diphenylhydrazine	EPA 8270	<1.05	mg/kg (dry)	10/18/2017	NCEL
2-Nitrophenol	EPA 8270	<5.24	mg/kg (dry)	10/18/2017	NCEL
1,3-Dichloropropylene (1,3-Dichloropr	EPA 8260	<0.02	mg/kg (dry)	10/19/2017	NCEL
2,3,7,8-Tetrachlordibenzo-p-dioxin (2,	EPA 608/8270	<0.03	mg/kg (dry)	10/18/2017	NCEL
<b>Zinc (Zn), TCLP</b>					
Zinc (Zn)	SM 3111B	0.29	mg/L	10/24/2017	NCEL